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Claims

1. A polymer composition comprising
 - (A) optionally a matrix polymer,
 - (B) a nanofiller, and
 - (C) a polyolefin with functional groups which has been prepared directly by polymerising olefin monomers with comonomers comprising functional groups using a single site catalyst.
2. A polymer composition according to claim 1, wherein the fraction of the comonomers with functional groups in polyolefin (C) is from 0.05 to 10 mol%, preferably from 0.1 to 5 mol% and still more preferred from 0.1 to 2 mol%.
3. A polymer composition according claims 1 or 2, wherein polyolefin (C) is a polyolefin with polar groups.
4. A polymer composition according to claim 3, wherein the polar comonomers used in the preparation of polyolefin (C) are monomers comprising a carbon-carbon double bond and an organic alcohol or acid group.
5. A polymer composition according to claim 4, wherein said comonomers comprise from 6 to 18 carbon atoms, and more preferably from 8 to 16 carbon atoms.
6. A polymer composition according to any of the preceding claims, wherein polyolefin (C) is a copolymer comprising ethylene and/or propylene monomers and comonomers with functional groups.

7. A polymer composition according to any of the preceding claims, wherein nanofiller (B) is a clay-based layered material.
8. A polymer composition according to claim 7 wherein nanofiller (B) has been intercalated with a quaternary ammonium compound containing intercalating agent.
9. A polymer composition according to any of the preceding claims, wherein matrix polymer (A) is a polyolefin.
10. A polymer composition according to claim 9, wherein matrix polymer (A) is an ethylene or propylene homo- or copolymer.
11. A polymer composition according to any of the preceding claims, wherein polyolefin (C) is present in an amount of 1 to 100, preferably of 5 to 50 and still more preferred of 4 to 10 parts by weight per 100 parts by weight of the total composition.
12. A polymer composition according to any of the preceding claims, wherein nanofiller (B) is present in an amount of 1 to 15, preferably of 2 to 10 and still more preferred of 4 to 10 parts by weight per 100 parts by weight of the total composition.
13. A polymer composition according to any of the preceding claims, wherein the matrix polymer (A) is present in amount of from 0 to 98, preferably from 40 to 93 and still more preferred from 45 to 91 parts by weight per 100 parts by weight of the total composition.
14. Use of a polyolefin with functional groups which has been prepared by polymerising olefin monomers with comonomers comprising functional groups using a single site catalyst as a compatibiliser in a polymer composition comprising a matrix polymer and a nanofiller.